

TORQ Analysis of Cost Estimators to Procurement Clerks

INPUT SECTION:											
Transfer		O*NE	Т	Filte	rs						
From Title):	Cost	Estimator	rs 13-1	051.00	Abili	ties:	Importance L	eveL: 50	Wei	ght: 1
To Title:			urement C		061.00	Skills		Importance L			ght: 1
Labor Mar	rket Area:	Main	e Statewi	de		Kno	Medge:	Importance L	evel: 69	Wei	ght: 1
OUTPUT SECTION:											
Gran	Grand TORQ:									(91
Ability TORQ S											
Ability TO	RQ			Skills TORQ				Knowledge TO	RQ		
Ability TO	PRQ		94	Skills TORQ Level			90	Knowledge TO	RQ		90
Level	oro s To Narro	w if Pos		Level	ide Thes	e Skills		Level	RQ wledge t	to Add	90
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Rela	ted Work Experience Comp	arison	Required Education Level Comparison			
Description	Cost Estimators	Procurement Clerks	Description	Cost Estimators	Procurement Clerks	
10+ years	8%	0%	Doctoral	0%	0%	
8-10 years	4%	0%	Professional Degree	0%	0%	
6-8 years	9%	0%	Post-Masters Cert	0%	0%	
4-6 years	4%	8%	Master's Degree	12%	0%	
2-4 years	15%	26%	Post-Bachelor Cert	0%	0%	
1-2 years	8%		Bachelors	19%	12%	
-		52%	AA or Equiv	8%	15%	
6-12 months	27%	6%	Some College	10%	11%	
3-6 months	11%	3%	Post-Secondary Certificate	9%	27%	
1-3 months	4%	0%	High Scool Diploma	40%	33%	
0-1 month	0%	2%	or GED			
None	4%	O%	No HSD or GED	0%	0%	
Cost Estimato	ors		Procurement Clerks			

Job Zone Comparison

4 - Job Zone Four: Considerable Preparation Needed A minimum of two to four years of work-related skill, knowledge, or experience is needed for these occupations. For example, an accountant must complete four years of college and work for several years in accounting to be considered qualified.

Most of these occupations require a four - year bachelor's degree, but some do not.

Employees in these occupations usually need several years of work-related experience, on-the-job training, and/or vocational training.

3 - Job Zone Three: Medium Preparation Needed

Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.

Most occupations in this zone require training in vocational schools, related on-the-job experience, or an associate's degree. Some may require a bachelor's degree.

Employees in these occupations usually need one or two years of training involving both on-the-job experience and informal training with experienced workers.

Tasks

Cost Estimators

Core Tasks

Generalized Work Activities:

- Communicating with Persons Outside Organization - Communicating with people outside the organization, representing the organization to customers, the public, government, and other external sources. This information can be exchanged in person, in writing, or by telephone or e-mail.
- Scheduling Work and Activities -Scheduling events, programs, and activities, as well as the work of others.
- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Getting Information Observing, receiving, and otherwise obtaining information from all relevant sources.
- Establishing and Maintaining Interpersonal Relationships - Developing constructive and cooperative working relationships with others, and maintaining them over time.

Specific Tasks

Occupation Specific Tasks:

- Analyze blueprints and other documentation to prepare time, cost, materials, and labor estimates.
- Assess cost effectiveness of products, projects or services, tracking actual costs relative to bids as the project develops.
- Conduct special studies to develop and establish standard hour and related cost data or to effect cost reduction.
- Confer with engineers, architects, owners, contractors and subcontractors on changes and adjustments to cost estimates.
- Consult with clients, vendors, personnel in other departments or construction

Procurement Clerks

Core Tasks

Generalized Work Activities:

- Getting Information Observing, receiving, and otherwise obtaining information from all relevant sources.
- Interacting With Computers Using computers and computer systems (including hardware and software) to program, write software, set up functions, enter data, or process information.
- Establishing and Maintaining Interpersonal Relationships - Developing constructive and cooperative working relationships with others, and maintaining them over time.
- Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
- Processing Information Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.

Specific Tasks

Occupation Specific Tasks:

- Approve bills for payment.
- Calculate costs of orders, and charge or forward invoices to appropriate accounts.
- Check shipments when they arrive to ensure that orders have been filled correctly and that goods meet specifications.
- Compare prices, specifications, and delivery dates in order to determine the best bid among potential suppliers.
- Compare suppliers' bills with bids and purchase orders in order to verify accuracy.
- Contact suppliers in order to schedule or expedite deliveries and to resolve shortages, missed or late deliveries, and



- foremen to discuss and formulate estimates and resolve issues.
- Establish and maintain tendering process, and conduct negotiations.
- Prepare and maintain a directory of suppliers, contractors and subcontractors.
- Prepare cost and expenditure statements and other necessary documentation at regular intervals for the duration of the project.
- Prepare estimates for use in selecting vendors or subcontractors.
- Prepare estimates used by management for purposes such as planning, organizing, and scheduling work.
- Review material and labor requirements to decide whether it is more cost-effective to produce or purchase components.
- Set up cost monitoring and reporting systems and procedures.
- Visit site and record information about access, drainage and topography, and availability of services such as water and electricity.

Detailed Tasks

Detailed Work Activities:

- advise clients on financial matters
- analyze budgets
- analyze financial data
- analyze technical data, designs, or preliminary specifications
- bid engineering, construction or extraction projects
- · compile data for financial reports
- compute cost estimates of construction or engineering projects
- compute financial data
- confer with vendors
- convert design specifications to cost estimates
- · estimate cost for engineering projects
- estimate materials or labor requirements
- estimate production costs
- estimate time needed for project
- estimate time or cost for installation, repair, or construction projects
- evaluate material specifications
- identify supplier with best bid
- interpret maps for architecture, construction, or engineering project
- monitor operational budget
- negotiate business contracts
- prepare cost estimates
- prepare financial reports
- prepare periodic reports comparing budgeted costs to actual costs

- other problems.
- Determine if inventory quantities are sufficient for needs, ordering more materials when necessary.
- Locate suppliers, using sources such as catalogs and the internet, and interview them to gather information about products to be ordered.
- Maintain knowledge of all organizational and governmental rules affecting purchases, and provide information about these rules to organization staff members and to vendors.
- Monitor contractor performance, recommending contract modifications when necessary.
- Monitor in-house inventory movement and complete inventory transfer forms for bookkeeping purposes.
- · Perform buying duties when necessary.
- Prepare invitation-of-bid forms, and mail forms to supplier firms or distribute forms for public posting.
- Prepare purchase orders and send copies to suppliers and to departments originating requests.
- Prepare, maintain, and review purchasing files, reports and price lists.
- Respond to customer and supplier inquiries about order status, changes, or cancellations.
- Review requisition orders in order to verify accuracy, terminology, and specifications.
- Track the status of requisitions, contracts, and orders.

Detailed Tasks

Detailed Work Activities:

- communicate technical information
- compile data for financial reports
- · compute financial data
- examine documents for completeness, accuracy, or conformance to standards
- fill out business or government forms
- fill out purchase requisitions
- identify supplier with best bid
- locate sources of supply for purchasing
- maintain account records
- maintain records, reports, or files
- manage inventories or supplies
- obtain information from individuals
- · operate calculating devices
- order or purchase supplies, materials, or equipment
- select materials or tools
- use computers to enter, access or retrieve data

- read blueprints
- read specifications
- understand construction specifications
- understand engineering data or reports
- understand technical operating, service or repair manuals
- · use computers to enter, access and retrieve financial data
- use cost benefit analysis techniques
- use spreadsheet software
- use statistical cost estimation methods

Technology - Examples

Accounting software

- Choice Job Cost
- Cost accounting software
- CPR International GeneralCOST Estimator
- Intuit QuickBooks
- National Job Cost software

Analytical or scientific software

- Construction Management Software ProEst
- QSM SLIM
- Resources Calculations Incorporated SoftCost
- WinEstimator WinEst

Data base reporting software

- Business Objects Crystal Reports
- Software AG software

Electronic mail software

• Microsoft Outlook

Financial analysis software

- · Cost estimation software
- CPR International Visual Estimator
- IBM Costimater
- Softstar Costar COCOMO II

Project management software

- Assured Software JPP
- Galorath SEER-SEM
- Sage Software Sage Master Builder
- Xactware Xactimate

Spreadsheet software

- use telephone communication techniques
- verify data from invoices to ensure accuracy
- write business correspondence

Technology - Examples

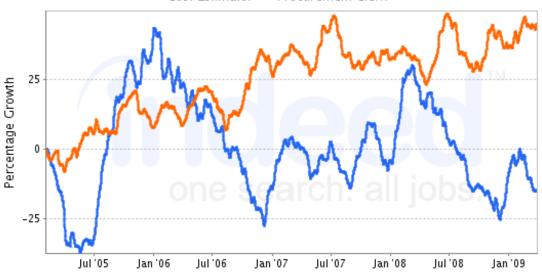
Apple AppleWorks
• пррисмогка
Corel QuattroPro
• IBM Lotus 1-2-3
Mcrosoft Excel
Spreadsheet software
Word processing software
Microsoft Word
Tools - Examples
Desktop computers
Notebook computers
Personal computers
Personal digital assistants PDA
• Scanners
Tablet computers

Labor Market Comparison								
Description	Cost Estimators	Procurement Clerks	Difference					
Median Wage	\$ 44,990	\$ 33,300	\$(11,690)					
10th Percentile Wage	\$ 30,880	\$ 22,760	\$(8,120)					
25th Percentile Wage	N/A	N/A	N/A					
75th Percentile Wage	\$ 58,820	\$ 41,460	\$(17,360)					
90th Percentile Wage	\$ 76,320	\$ 47,510	\$(28,810)					
Mean Wage	\$ 49,830	\$ 33,970	\$(15,860)					
Total Employment - 2007	750	N/A	N/A					
Employment Base - 2006	751	251	-500					
Projected Employment - 2016	853	247	-606					
Projected Job Growth - 2006-2016	13.6 %	-1.6 %	-15.2 %					
Projected Annual Openings - 2006-2016	25	5	-20					

National Job Posting Trends	
Trend for Cost Estimators	Trend for Procurement Clerks

Job Trends from Indeed.com

— Cost Estimator — Procurement Clerk



Data from Indeed

Recommended Programs

General Office/Clerical and Typing Services

General Office Occupations and Clerical Services. A program that prepares individuals to provide basic administrative support under the supervision of office managers, administrative assistants, secretaries, and other office personnel. Includes instruction in typing, keyboarding, filing, general business correspondence, office equipment operation, and communications skills.

Institution	Address	City	URL
Northern Maine Community College	33 Edgemont Dr	Presque Isle	www.nmcc.edu

	Maine Statewide Promotion Opportunities for Cost Estimators								
O* NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings	
13-1051.00	Cost Estimators	100	4	750	\$44,990.00	\$0.00	14%	25	
13-1023.00	Purchasing Agents, Except Wholesale, Retail, and Farm Products	93	3	920	\$45, 210.00	\$220.00	-2%	21	
13-2053.00	Insurance Underwriters	90	3	460	\$56,090.00	\$11,100.00	-1%	12	
19-3021.00	Market Research Analysts	90	4	200	\$49,960.00	\$4,970.00	3%	2	
41-1012.00	First-Line Supervisors/Managers of Non-Retail Sales Workers	89	4	930	\$55, 220.00	\$10, 230.00	-1%	19	

41-3031.02	Sales Agents, Financial Services	89	4	0	\$65, 230.00	\$20, 240.00	5%	33
11-3031.02	Financial Managers, Branch or Department	89	4	2,440	\$67,670.00	\$22,680.00	7%	58
13-2031.00	Budget Analysts	89	4	170	\$57,290.00	\$12,300.00	3%	5
11-3011.00	Administrative Services Managers	88	4	1,090	\$56, 630.00	\$11,640.00	5%	34
13-2051.00	Financial Analysts	88	4	210	\$71,380.00	\$26,390.00	10%	4
13-2061.00	Financial Examiners	88	4	120	\$55,110.00	\$10,120.00	3%	2
13-2052.00	Personal Financial Advisors	88	3	360	\$94,100.00	\$49,110.00	10%	13
13-2072.00	Loan Officers	88	3	1,450	\$49, 380.00	\$4,390.00	9%	29
11-2022.00	Sales Managers	88	4	1,310	\$72,720.00	\$27,730.00	3%	32
13-2011.02	Auditors	88	4	3, 250	\$48,110.00	\$3,120.00	11%	113

Top Ind	ustries f	or Procuren	nent Clerks		
Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Federal government, excluding postal service	919999	18.66%	14,519	12,352	-14.92%
Management of companies and enterprises	551100	5.35%	4,159	4,794	15.28%
General medical and surgical hospitals, public and private	622100	5. 24%	4,074	4,510	10.71%
Elementary and secondary schools, public and private	611100	4.08%	3,176	3,347	5.38%
Colleges, universities, and professional schools, public and private	611300	3.27%	2,546	2,849	11.87%
Local government, excluding education and hospitals	939300	2.64%	2,057	2,311	12.34%
Building material and supplies dealers	444100	2.11%	1,640	1,887	15.01%
Grocery and related product wholesalers	424400	1.79%	1,392	1,522	9.35%
Employment services	561300	1.55%	1,205	1,525	26.57%
State government, excluding education and hospitals	929200	1.42%	1,106	977	-11.69%
Grocery stores	445100	1.36%	1,062	1,159	9.11%
Wholesale electronic markets and agents and brokers	425100	1.22%	951	971	2.13%
Mscellaneous nondurable goods merchant wholesalers	424900	1.12%	874	855	-2.15%
Junior colleges, public and private	611200	1.11%	865	860	-0.56%
Self-employed workers, secondary job	000602	1.07%	831	744	-10.40%

Тор	Industri	es for Cost I	Estimators		
Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Nonresidential building construction	236200	9.42%	20,828	25, 214	21.06%
Residential building construction	236100	8.88%	19,639	23,893	21.66%
Plumbing, heating, and air-conditioning contractors	238220	7.50%	16,592	20,243	22.00%
Electrical contractors	238210	7.22%	15,964	18,085	13.29%
Other specialty trade contractors	238900	5. 27%	11,641	13,900	19.41%
Automotive body, paint, interior, and glass repair	811120	3.78%	8, 358	10,543	26.14%
Drywall and insulation contractors	238310	3.11%	6,882	7,931	15.24%
Printing and related support activities	323100	2.68%	5,921	5,068	-14.40%
Architectural and structural metals manufacturing	332300	2.56%	5,662	6,533	15.39%
Roofing contractors	238160	2.41%	5,338	6,735	26.16%
Highway, street, and bridge construction	237300	2.38%	5,266	6,125	16.32%
Painting and wall covering contractors	238320	2.03%	4,489	5,397	20.22%
Building material and supplies dealers	444100	1.92%	4,252	5,870	38.06%
Automobile dealers	441100	1.49%	3,290	4,032	22.56%
Poured concrete foundation and structure contractors	238110	1.46%	3, 228	3,932	21.79%